## CLAIMS

1	1. A system for managing parts requirements
2	processes in an engineering environment, comprising:
3	an enterprise system including:
4	a workstation;
5	a server;
6	a network connection for allowing said
7	workstation and said server to communicate; and
8	a storage device coupled to said workstation;
9	wherein said enterprise system is executing a bill
10	of material assist application for managing said parts
11	requirements processes.
1	2. The system of claim 1, further comprising:
2	a database of parts information.
1	<ol><li>The system of claim 1, further comprising:</li></ol>
2	a database of procurement information.
1	4. The system of claim 1, further comprising:
2	a database of computer aided drafting information.
1	5. The system of claim 1, further comprising:
2	a database of approved vendors lists.
1	6. The system of claim 1, further comprising:
1	
2	a database of bill of material files.

1 2

- 7. The system of claim 2, wherein said database of parts information is commercially provided, and wherein said database of parts information is accessible to said enterprise system by a communications link.
  - 8. The system of claim 3, wherein said database of procurement information is commercially provided, and wherein said database of procurement information is accessible to said enterprise system by a communications link.
  - 9. The system of claim 4, wherein said database of computer aided drafting information is commercially provided, and wherein said database of computer aided drafting information is accessible to said enterprise system by a communications link.

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1	10. A method for managing parts requirements
2	processes in an engineering environment via a bill of
3	material assist application, comprising:
4	importing component parts data listed on a bill of
5	material to said bill of material assist application;
6	mapping said component parts data to associated data
7	fields provided by said bill of material assist
8	application;
9	aggregating information from a plurality of sources
10	and correlating said information to said components parts
11	data; and
12	providing results of said correlating said
13	information in a summary form to a user of said bill of
14	material assist application.

- 11. The method of claim 10, further comprising modifying said component parts data on said bill of material by said user in response to reviewing said results of said correlating said information.
- 1 12. The method of claim 10, further comprising:
  2 generating an approved vendor list indicating
  3 approved sources of component supply for items on said
  4 bill of material; and
  5 comparing approved vendors on said approved vendor
- 6 list for alternative sources of said component supply.

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1	13.	The 1	method	i oi	claim	12,	fui	rther	compri	ising
2	modifying	said	bill	of	materia	al l	ist	based	upon	said
3	comparing.									

- 1 14. The method of claim 10, further comprising 2 transferring said bill of material list to relevant 3 entities for review or approval.
- 1 15. The method of claim 14, further comprising 2 modifying said bill of material list based upon said 3 review or said approval.
- 1 16. The method of claim 10, further comprising: 2 transferring said bill of material list to said 3 user; and

transferring said bill of material list to at least one of said relevant entities.

- 1 17. The method of claim 10, wherein said importing 2 said component parts data to said bill of material assist 3 application is performed manually by said user.
- 1 18. The method of claim 10, wherein said importing 2 said component parts data to said bill of material assist 3 application is performed electronically via said bill of 4 material assist application whereby said component parts 5 data is stored in a database accessed by said user.

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The method of claim 10, wherein said plurality
1
           19.
     of sources include:
2
           at least one parts database;
3
4
           at least one procurement database;
           at least one computer aided drafting database;
5
           at least one approved vendors database; and
6
7
           external supplier databases.
                The method of claim 10, wherein said
           20.
1
      aggregating information includes data pertaining to:
2
3
           lead time;
4
           currently supply status;
           single or multiple source;
5
           end of life date; and
6
7
           preferredness rating.
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1
                      The method of claim 20, further comprising data
                 21.
     2
            pertaining to:
                 map flags;
     3
                 life cycles;
     4
                 duplicate local part numbers;
     5
                 local part numbers;
     6
     7
                 part descriptions;
                 leaf class description;
     8
     9
                 messages;
    10
                 supplier names;
                 supplier part numbers;
    11
alternative local part numbers;
    12
     13
                 quantities;
     14
                 data providers;
                 engineering changes;
    15
                 engineering statuses;
     16
Marie State State States
    17
                 technical usage codes;
                 engineers names;
    18
     19
                 supply statuses;
    20
                 restricted usage codes;
                 end of life dates;
    21
    22
                 lead times;
                 part sourcing statuses;
    23
    24
                 reference designators;
                 commodities; and
    25
                 comments desired by a system user.
    26
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22. A storage medium encoded with machine-readable
computer program code for managing parts requirements
processes in an engineering environment via a bill of
material assist application, the storage medium including
instructions for causing a computer to implement a method
comprising:

importing component parts data listed on a bill of material to said bill of material assist application;

mapping said component parts data to associated data fields provided by said bill of material assist application;

aggregating information from a plurality of sources and correlating said information to said components parts data; and

providing results of said correlating said information in a summary form to a user of said bill of material assist application.

23. The storage medium of claim 22, further comprising instructions for causing a computer to implement:

modifying said component parts data on said bill of material by said user in response to reviewing said results of said correlating said information.

1	24. The storage medium of claim 22, further							
2	comprising instructions for causing a computer to							
3	implement:							
4	generating an approved vendor list indicating							
5	approved sources of component supply for items on said							
6	bill of material; and							
7	comparing approved vendors on said approved vendor							
8	list for alternative sources of said component supply.							
1	25. The storage medium of claim 24, further							
2	comprising instructions for causing a computer to							
3	implement:							
4	modifying said bill of material list based upon said							
5	comparing.							
1	26. The storage medium of claim 22, further							
2	comprising instructions for causing a computer to							
3	implement:							
4	transferring said bill of material list to relevant							
5	entities for review or approval.							
1	27. The storage medium of claim 26, further							
2	comprising instructions for causing a computer to							
3	implement:							
	•							

modifying said bill of material list based upon said

review or said approval.

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1	28. The storage medium of claim 22, further
2	comprising instructions for causing a computer to
3	<pre>implement:</pre>
4	transferring said bill of material list to said
5	user; and
6	transferring said bill of material list to at least
7	one of said relevant entities.
1	29. The storage medium of claim 22, wherein said
2	importing said component parts data to said bill of
3	material assist application is performed manually by said

- 30. The storage medium of claim 22, wherein said importing said component parts data to said bill of material assist application is performed electronically via said bill of material assist application whereby said component parts data is stored in a database accessed by said user.
- 1 31. The storage medium of claim 22, wherein said
  2 plurality of sources include:
  3 at least one parts database;
  4 at least one procurement database;
- 5 at least one computer aided drafting database;
- at least one approved vendors database; and
- 7 external supplier databases.

user.

1	32. The storage medium of claim 22, wherein said
2	aggregating information includes data pertaining to:
3	<pre>lead time;</pre>
4	currently supply status;
5	single or multiple source;
6	end of life date; and
7	preferredness rating.

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The storage medium of claim 22, further
1
            33.
       comprising instructions for causing a computer to
2
       implement providing data pertaining to:
3
4
            map flags;
5
            life cycles;
            duplicate local part numbers;
6
7
            local part numbers;
            part descriptions;
8
9
            leaf class description;
10
            messages;
            supplier names;
11
12
            supplier part numbers;
            alternative local part numbers;
13
14
            quantities;
            data providers;
15
            engineering changes;
16
17
            engineering statuses;
            technical usage codes;
18
19
            engineers names;
20
            supply statuses;
            restricted usage codes;
21
22
            end of life dates;
23
            lead times;
            part sourcing statuses;
24
25
            reference designators;
            commodities; and
26
            comments desired by a system user.
27
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